

TRANSLATION

PATENT COOPERATION TREATY

PCT

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference 42 865 . go . nb	FOR FURTHER ACTION	See Form PCT/IPEA/416
International application No. PCT/EP2005/007378	International filing date (<i>day/month/year</i>) 08 . 07 . 2005	Priority date (<i>day/month/year</i>) 24 . 08 . 2004
International Patent Classification (IPC) or national classification and IPC B21B1/46, B21B45/04		
Applicant SMS DEMAG AG		

1. This report is the international preliminary examination report, established by this International Preliminary Examining Authority under Article 35 and transmitted to the applicant according to Article 36.
2. This REPORT consists of a total of _____ sheets, including this cover sheet.
3. This report is also accompanied by ANNEXES, comprising: a. <input checked="" type="checkbox"/> (<i>sent to the applicant and to the International Bureau</i>) a total of <u>9</u> sheets, as follows: <input checked="" type="checkbox"/> sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions). <input type="checkbox"/> sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the Supplemental Box. b. <input type="checkbox"/> (<i>sent to the International Bureau only</i>) a total of (indicate type and number of electronic carrier(s)) _____, containing a sequence listing and/or tables related thereto, in computer readable form only, as indicated in the Supplemental Box Relating to Sequence Listing (see Section 802 of the Administrative Instructions).
4. This report contains indications relating to the following items: <input checked="" type="checkbox"/> Box No. I Basis of the report <input type="checkbox"/> Box No. II Priority <input type="checkbox"/> Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability <input type="checkbox"/> Box No. IV Lack of unity of invention <input checked="" type="checkbox"/> Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement <input type="checkbox"/> Box No. VI Certain documents cited <input type="checkbox"/> Box No. VII Certain defects in the international application <input type="checkbox"/> Box No. VIII Certain observations on the international application

Date of submission of the demand	Date of completion of this report
Name and mailing address of the IPEA/EP	Authorized officer
Facsimile No.	Telephone No.

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Box No. I Basis of the report

1. With regard to the **language**, this report is based on the international application in the language in which it was filed, unless otherwise indicated under this item.
- ☐ This report is based on translations from the original language into the following language _____, which is the language of a translation furnished for the purposes of:
- ☐ international search (Rule 12.3 and 23.1(b))
- ☐ publication of the international application (Rule 12.4)
- ☐ international preliminary examination (Rule 55.2 and/or 55.3)
2. With regard to the **elements** of the international application, this report is based on *(replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report)*:
- ☐ the international application as originally filed/furnished
- ☒ the description:
- pages 7-9 _____ as originally filed/furnished
- pages* 1-6 _____ received by this Authority on 15.12.2005 with letter of 13.12.2005
- pages* _____ received by this Authority on _____
- ☒ the claims:
- nos. _____ as originally filed/furnished
- nos.* _____ as amended (together with any statement) under Article 19
- nos.* 1-9 _____ received by this Authority on 15.12.2005 with letter of 13.12.2005
- nos.* _____ received by this Authority on _____
- ☒ the drawings:
- sheets 1/2, 2/2 _____ as originally filed/furnished
- sheets* _____ received by this Authority on _____
- sheets* _____ received by this Authority on _____
- ☐ a sequence listing and/or any related table(s) – see Supplemental Box Relating to Sequence Listing.
3. ☐ The amendments have resulted in the cancellation of:
- ☐ the description, pages _____
- ☐ the claims, nos. _____
- ☐ the drawings, sheets/figs _____
- ☐ the sequence listing (*specify*): _____
- ☐ any table(s) related to sequence listing (*specify*): _____
4. ☐ This report has been established as if (some of) the amendments annexed to this report and listed below had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).
- ☐ the description, pages _____
- ☐ the claims, nos. _____
- ☐ the drawings, sheets/figs _____
- ☐ the sequence listing (*specify*): _____
- ☐ any table(s) related to sequence listing (*specify*): _____

* If item 4 applies, some or all of those sheets may be marked "superseded."

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Box No. V	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement		
1.	Statement		
	Novelty (N)	Claims <u>1-9</u>	YES
		Claims _____	NO
	Inventive step (IS)	Claims <u>1-9</u>	YES
		Claims _____	NO
	Industrial applicability (IA)	Claims <u>1-9</u>	YES
		Claims _____	NO
2.	Citations and explanations (Rule 70.7)		
	<p>1. This report makes reference to the following documents:</p> <p>D1: PATENT ABSTRACTS OF JAPAN; Vol. 015, No. 484 (C-0892), 9 December 1991 (1991-12-09) -&; JP 03 211233 A (NIPPON STEEL CORP), 17 September 1991 (1991-09-17)</p> <p>D2: EP 0 625 383 A (DANIELI & C. OFFICINE MECCANICHE S.P.A.) 23 November 1994 (1994-11-23)</p> <p>D3: WO 03/064069 A (SMS DEMAG AKGTIENGESSELLSCHAFT; SCHUSTER, INGO; ALBEDYHL, MANFRED) 7 August 2003 (2003-08-07)</p> <p>D4: EP 0 795 361 A (DANIELI & C. OFFICINE MECCANICHE S.P.A.) 17 September 1997 (1997-09-17)</p> <p>D5: EP 0 770 433 A (DANIELI & C. OFFICINE MECCANICHE S.P.A.) 2 May 1997 (1997-05-02)</p> <p>2. The subject matter of claims 1 and 4 is novel</p>		

Box No. V	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
	<p>and inventive within the meaning of PCT Article 33(2) and (3) for the following reasons:</p> <p>2.1 D1 is regarded as the prior art closest to the subject matter of claims 1 and 4. The subject matter of these claims differs, according to the characterizing part, from the method known from D1 and the device known from D1, respectively, in that:</p> <p>Claim 1: The descaling operation takes place at a movable location in the oven.</p> <p>Claim 4: The descaling device is arranged in the oven so as to be displaceable using displacement means.</p> <p>2.2 Documents D2 to D5 do not contain the idea of making it possible to carry out the descaling at different locations within the oven, either.</p> <p>2.3 The additional features make it possible to prevent scale deposits in the rear area of the oven in a non-obvious manner.</p> <p>3. Claims 2 to 3 and 5 to 9 are dependent on claims 1 and 4, respectively, and therefore likewise meet the PCT requirements for novelty and inventive step (PCT Article 33(2) and (3)).</p>

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Box No. V

Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability;
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4. The subject matter of **claims 1 to 6** is industrially applicable without a doubt (PCT Article 33(4)).